

# Übung zur Klassenarbeit 2/1

1.  $-5 + (-2) = -7$   $-1 + 3 = 2$
2.  $-(-6) - 9 = -3$   $-(-6) - (-1) = 7$
3.  $-(7 + 7) = -14$   $-(-2 + 6) = -4$
4.  $-(-9 - 8) = 17$   $-[3 - (-9)] = -12$
5.  $-30 : (-5) = 6$   $5 : (-1) = -5$
6.  $-(-4) \cdot 4^2 = 64$   $-(-8) \cdot (-2)^2 = 32$
7.  $-2 \cdot (-8)^2 = -128$   $-2 \cdot 3^2 = -18$
8.  $2 \cdot (-8)^2 = 128$   $2 \cdot 2^2 = 8$
9.  $(-7) + 5 + (-8) + 3 = -7$
10.  $4 - (8 + 2) = -6$   $(-6) - (1 + (-3)) = -4$
11.  $(-9) - (-1) - (-3) = -5$   $(-7) - (-5) - 1 = -3$
12.  $(-2) - (-4) + 6 - (-3) = 11$
13.  $-2 \cdot \left(\frac{1}{2}\right)^2 = -\frac{1}{2}$   $-2 \cdot \left(\frac{3}{4}\right)^2 = -\frac{9}{8}$
14.  $-2 \cdot \left(\frac{1}{3}\right)^2 = -\frac{2}{9}$   $-2 \cdot \left(-\frac{2}{3}\right)^2 = -\frac{24}{27}$
15.  $(-2 \cdot \frac{13}{5})^2 = 27,04$   $(-2 \cdot (-\frac{13}{4}))^2 = \frac{169}{4}$
16.  $(-\frac{19}{6}) - \frac{8}{3} = -\frac{35}{6}$   $(-\frac{1}{3}) - (-\frac{11}{4}) = \frac{29}{12}$
17.  $-\frac{11}{6} : (-\frac{2}{3}) = \frac{11}{4}$   $-\frac{8}{3} : \frac{16}{3} = -\frac{1}{2}$
18.  $-\frac{1}{6} + \frac{9}{2} = \frac{13}{3}$   $-(-\frac{12}{5}) + \frac{19}{3} = \frac{131}{15}$
19.  $\frac{5}{3} \cdot (-\frac{12}{5})^2 = \frac{48}{5}$   $(-\frac{5}{2}) \cdot \left(\frac{1}{2}\right)^2 = -\frac{5}{8}$
20.  $48,5 \cdot 0,8^2 = 31,04$   $8,5 \cdot 5,4^2 = 247,86$



# Übung zur Klassenarbeit 2/2

1.  $|-88| =$  1. 88  
 $|66| =$  66  
 $|(-3) \cdot (-88)| =$  264
2.  $[9 + (-6)] \cdot [(-3) - 4] = -21$
3.  $[(-7) - 1] \cdot [3 - (-1)] = -32$
4.  $[(-6) + 2] \cdot [(-6) + 1] = 20$
5.  $5 \cdot [(-3) - 5 + 2] = -30$
6.  $(-9) \cdot (2 + 5 + 1) = -72$
7.  $\frac{14}{5} \cdot \left(\frac{5}{3} + \left(-\frac{11}{4}\right) + 19\right) = \frac{301}{6}$
8.  $\frac{3}{5} \cdot \left(\left(-\frac{7}{2}\right) - \frac{17}{4} + \left(-\frac{6}{5}\right)\right) = -5,37$
9.  $\left(\frac{1}{2} + \left(-\frac{1}{5}\right)\right) \cdot \left(\left(-\frac{9}{5}\right) + \frac{14}{3}\right) = \frac{43}{50}$
10.  $\left(\frac{17}{6} + \frac{16}{5}\right) \cdot (3 - (-1)) = \frac{362}{15}$
11.  $\left(\frac{13}{5} - \left(-\frac{5}{2}\right)\right) \cdot \left(1 - \frac{9}{4}\right) = -\frac{51}{8}$
12.  $(-1,59) + (-0,4) + (-0,15) + 1,5 = -0,64$
13.  $0,5 - (0,88 + 0,09) = -0,47$
14.  $70,5 - (-8,03) - 35,925 = 42,605$
15.  $-\left(\frac{9}{4} + \left(-\frac{16}{5}\right)\right) = \frac{19}{20}$   $-\left(\frac{17}{5} + \frac{5}{2}\right) = -\frac{59}{10}$
16.  $-\left(\frac{19}{3} - \frac{5}{2}\right) = -\frac{23}{6}$   $-\left(\frac{3}{2} - \frac{7}{6}\right) = -\frac{1}{3}$
17.  $\left(\frac{17}{4} - \left(-\frac{1}{2}\right)\right)^2 = \frac{361}{16}$   $\left(\frac{17}{2} - \frac{7}{4}\right)^2 = \frac{729}{16}$
18.  $-\frac{81}{8} : \frac{9}{2} = -\frac{9}{4}$   $-\frac{6}{25} : \left(-\frac{6}{5}\right) = \frac{1}{5}$
19.  $\frac{19}{2} \cdot \left(\frac{8}{5}\right)^2 = 24,32$   $\frac{3}{4} \cdot \left(\frac{7}{2}\right)^2 = \frac{147}{16}$

$$20. \quad - \left(-\frac{4}{5}\right) \cdot \left(\frac{3}{2}\right)^2 = \frac{9}{5} \qquad -\frac{8}{5} \cdot \left(\frac{9}{2}\right)^2 = -\frac{162}{5}$$

$$21. \quad \frac{13}{5} - \frac{9}{4} + \left(-\frac{8}{5}\right) - 6 = -\frac{29}{4}$$

$$22. \quad \frac{10}{3} - \frac{1}{3} + 2 - \left(-\frac{5}{2}\right) = \frac{15}{2}$$

$$23. \quad \frac{11}{2} \cdot \left(\frac{7}{3} - \left(-\frac{2}{3}\right)\right) = \frac{33}{2}$$

$$24. \quad \left(-\frac{13}{3}\right) \cdot \left(\frac{17}{4} - \frac{19}{5} + (-6)\right) = \frac{2405}{100} = \frac{481}{20}$$